

**ABSTRACT OF THE DISCLOSURE**

A medical system for detecting heart events has an electrode lead with a multi-dot electrode unit having at least three dot electrodes, for intracorporeal sensing of heart signals. The heart signal sensed by each of the dot electrodes are supplied to a processor, wherein the signals are combined and a synthetic reference signal is determined. The difference between each dot electrode signal and the synthetic reference signal is determined, and an indication signal is formed based on the respective differences, the indication signal being used to detect heart events.

CH1\ 4810618.1